

## **Ferry Maintenance Report**

Vessel: Queen of Alberni

Date: July 9, 2013

Reporter: Chris Sundstrom

Other Personnel: Reo Baird

### **Reason for Visit**

1. Diagnose system error (blocked intake system)

### **Observations**

1. System continues to have very low flow past the pump, essentially cycling the system water until vacuum pressure in the intake causes a resurgence of the system water into the intake lines.
2. Disassembled the lower sea chest and removed the inlet pipe. Inlet pipe was clogged solid with wood fibres and had a mussel growing adjacent to the anti-biofouling system plates.
3. Cracked the intake valve to ocean and observed no pressure (should be ~3 PSI). Opened the valve entirely and observed no pressure.
4. Used a piece of threaded rod to examine the exterior pod intake. The exterior pod was found to be jammed solid with wood fibres. Extensive prodding and poking with the threaded rod did not dislodge sufficient fibres to restore flow.
5. Unable to restore flow, the intake valve was closed and capped off temporarily, the outlet valve closed and the pump unplugged.

### **Actions Taken**

1. Unable to restore flow. Diagnosis that the exterior pod is jammed solid with wood fibres.
2. Accessed upper bridge structure and moved the MET station tower to the pole on the opposite side of the radiometer platform to prevent shadowing of the sensors.

### **Future Actions**

1. Return to vessel with tools and time to attempt unclogging of the exterior pod.